

CLAIMS

1. A substantially amorphous polyester resin composition, which comprises:

1 to 40 parts by weight of a core-shell modifier for impact resistance (1), which has a refractive index between 1.55 and 1.60, and 60 to 99 parts by weight of at least one aromatic polyester or co-polyester (2) [100 parts by weight of the sum of (1) and (2)], the composition comprising 15 to 85 parts by weight of a core (A) obtained by copolymerizing 65% to 95% by weight of a butadiene monomer, 5% to 35% by weight of an aromatic vinyl monomer, 0% to 10% by weight of a vinyl monomer capable of copolymerizing with these monomers, and 0.01% to 5% by weight of a cross-linking monomer and 15 to 85 parts by weight of a shell (B) [100 parts by weight of the sum of (A) and (B)], wherein said core (A) comprises 10 to 50 parts by weight of an inner layer core (A-1) obtained by copolymerizing 25% to 100% by weight of a butadiene monomer, 0% to 75% by weight of an aromatic vinyl monomer, 0% to 40% by weight of a vinyl monomer capable of copolymerizing with these monomers, and 0.1% to 10% by weight of a cross-linking monomer, and 5 to 75 parts by weight of an outer layer core (A-2) obtained in the presence of the inner layer core (A-1) by copolymerizing 50% to 100% by weight of a butadiene monomer, 0% to 50% by weight of an aromatic vinyl monomer, 0% to 40% by weight of a vinyl monomer capable of copolymerizing with these monomers, and 0% to 2% by weight of a cross-linking monomer,

and said shell (B) is obtained by copolymerizing one or more vinyl monomers (a mixture).

2. The substantially amorphous polyester resin composition according to claim 1, wherein, with regard to the core (A) in the core-shell modifier for impact resistance (1), the ratio of a cross-linking monomer in the inner layer core (A-1) is higher than that in the outer layer core (A-2).

3. The substantially amorphous polyester resin composition according to claim 1 or 2, wherein the core-shell modifier for impact resistance (1) has a refractive index between 1.55 and 1.60, and comprises 15 to 85 parts by weight of the core (A), and 15 to 85 parts by weight of the shell (B) obtained by copolymerizing 10 to 80 parts by weight of an inner layer shell (B-1) obtained by copolymerizing 60% to 98% by weight of an aromatic vinyl monomer, 2% to 40% by weight of (meth)acrylic ester monomer having a hydroxyl or alkoxy group, and 0% to 20% by weight of a vinyl monomer capable of copolymerizing with these monomers, and 5 to 20 parts by weight of an outermost layer shell (B-2) obtained by copolymerizing 50% to 100% by weight of an aromatic vinyl monomer and 0% to 50% by weight of a vinyl monomer capable of copolymerizing with these monomers [100 parts by weight of the sum of (A) and (B)].

4. A molded product, which is produced from the composition according to any one of claims 1 to 3 under conditions where at least one aromatic polyester or co-polyester (2) is maintained in an amorphia form.